

Title (en)

Biodegradable compositions based on nanoparticulate starch

Title (de)

Auf Nanopartikel-Stärke basierende, biologisch abbaubare Zusammensetzungen

Title (fr)

Compositions biodégradables à base d'amidon en nanoparticules

Publication

**EP 2202274 B1 20120229 (EN)**

Application

**EP 10158541 A 20070926**

Priority

- EP 07820625 A 20070926
- IT MI20061844 A 20060927

Abstract (en)

[origin: WO2008037749A2] The present invention relates to biodegradable multiphase compositions comprising a continuous phase composed of a matrix of at least one tough hydrophobic polymer incompatible with the starch and a nanoparticulate dispersed starch phase with mean dimensions of less than 0.25 µm. The compositions are characterized by breaking load, Young's Modulus and breaking energy.

IPC 8 full level

**C08L 67/02** (2006.01); **C08J 5/18** (2006.01); **C08L 3/02** (2006.01)

CPC (source: BR EP US)

**C08J 5/18** (2013.01 - EP US); **C08L 3/02** (2013.01 - EP US); **C08L 67/02** (2013.01 - BR EP US); **C08L 101/16** (2013.01 - EP US); **C08J 5/18** (2013.01 - BR); **C08J 2303/02** (2013.01 - EP US); **C08J 2367/04** (2013.01 - EP US); **C08L 3/02** (2013.01 - BR); **C08L 33/068** (2013.01 - BR EP US); **C08L 67/04** (2013.01 - BR EP US); **C08L 101/16** (2013.01 - BR); **Y10S 220/30** (2013.01 - EP US); **Y10T 428/1334** (2015.01 - EP US); **Y10T 428/1352** (2015.01 - EP US); **Y10T 428/1372** (2015.01 - EP US); **Y10T 428/25** (2015.01 - EP US); **Y10T 428/254** (2015.01 - EP US); **Y10T 428/268** (2015.01 - EP US); **Y10T 428/269** (2015.01 - EP US); **Y10T 428/31786** (2015.04 - EP US); **Y10T 428/31971** (2015.04 - EP US); **Y10T 442/681** (2015.04 - EP US)

Cited by

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**WO 2008037749 A2 20080403**; **WO 2008037749 A3 20080515**; AT E468372 T1 20100615; AT E547476 T1 20120315; AU 2007302010 A1 20080403; AU 2007302010 B2 20120823; BR PI0715276 A2 20130604; BR PI0715276 B1 20180502; CA 2662446 A1 20080403; CA 2662446 C 20140729; CN 101516997 A 20090826; CN 101516997 B 20121128; DE 602007006679 D1 20100701; EP 2074176 A2 20090701; EP 2074176 B1 20100519; EP 2202274 A2 20100630; EP 2202274 A3 20101027; EP 2202274 B1 20120229; ES 2345518 T3 20100924; ES 2382530 T3 20120611; IT MI20061844 A1 20080328; JP 2010505018 A 20100218; PL 2074176 T3 20101029; PL 2202274 T3 20120831; PT 2202274 E 20120521; RU 2009114684 A 20101110; RU 2479607 C2 20130420; US 2009311455 A1 20091217; US 8043679 B2 20111025

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